

## EAST Search History

S32	0	S31 and ((reel\$3 shank spool\$3 wind\$3 tension\$3) near2 (element bar elongat\$3 member)) near8 ((plane axis line) and (rotat\$3 exten\$4 engag\$3 co\$1axi\$4) and (line wire cable cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 14:53
S33	0	S31 and ((reel\$3 shank spool\$3 wind\$3 tension\$3) near8 (element bar elongat\$3 member)) near4 ((plane axis line) and (rotat\$3 exten\$4 engag\$3 co\$1axi\$4) and (line wire cable cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 13:01
S34	2	S31 and (length (horizontal lateral) adj (dimension)) near6 ((shank reel shaft bar) and (diameter cross\$1section\$2) and (cable wire cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 13:11
S35	0	("597426").URPN.	USPAT	OR	ON	2007/01/07 13:07
S36	2	S31 and (length (horizontal lateral) adj (dimension)) near6 ((shank reel shaft bar) and (diameter cross\$1section\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 13:11
S37	23	S25 and (length (horizontal lateral) adj (dimension)) near6 ((shank reel shaft bar) and (diameter cross\$1section\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 13:12
S38	22	S37 not S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 13:12
S39	245	(248/493).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/07 14:32
S40	230	S39 and @pd<"20020423"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 14:51
S41	20	24/554	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 14:50
S42	186	40/757	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 14:51
S43	89	S42 and @pd<"20020423"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 14:51
S44	73	S30 and (tighten\$3 tension\$3 reel\$3 wind\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 14:53

# INTERFERENCE

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	((spool reel (wire\$1 cable\$1 cord\$1) adj (ac\$1um\$1ulat\$3 wind\$3)) and ((length (wind\$3 tak\$5 ac\$1m\$1lat\$3) adj span)) near10 ((diameter radius) and (shank leg stem) and ("5" "8" "10" "12" "15" "17" "35" "40" "60" "55") adj (multiple factor times))).clm.	US-PGPUB	OR	ON	2007/06/10 19:30
L2	0	A01G017/04.ipc. and ((spool reel (wire\$1 cable\$1 cord\$1) adj (ac\$1um\$1ulat\$3 wind\$3)) and ((length (wind\$3 tak\$5 ac\$1m\$1lat\$3) adj span)) near10 ((diameter radius) and (shank leg stem) and ("5" "8" "10" "12" "15" "17" "35" "40" "60" "55") adj (multiple factor times)))	EPO; JPO; DERWENT	OR	ON	2007/06/10 19:31
L3	0	F18G011/12.ipc. and ((spool reel (wire\$1 cable\$1 cord\$1) adj (ac\$1um\$1ulat\$3 wind\$3)) and ((length (wind\$3 tak\$5 ac\$1m\$1lat\$3) adj span)) near10 ((diameter radius) and (shank leg stem) and ("5" "8" "10" "12" "15" "17" "35" "40" "60" "55") adj (multiple factor times)))	EPO; JPO; DERWENT	OR	ON	2007/06/10 19:31
L4	0	F18G011/12.ipc. and ((spool reel (wire\$1 cable\$1 cord\$1) adj (ac\$1um\$1ulat\$3 wind\$3)) and ((length (wind\$3 tak\$5 ac\$1m\$1lat\$3) adj span)) near10 ((diameter radius) and (shank shaft leg stem) and ("5" "8" "10" "12" "15" "17" "35" "40" "60" "55") adj (multiple factor times)))	EPO; JPO; DERWENT	OR	ON	2007/06/10 19:32
L5	0	F16G011/12.ipc. and ((spool reel (wire\$1 cable\$1 cord\$1) adj (ac\$1um\$1ulat\$3 wind\$3)) and ((length (wind\$3 tak\$5 ac\$1m\$1lat\$3) adj span)) near10 ((diameter radius) and (shank shaft leg stem) and ("5" "8" "10" "12" "15" "17" "35" "40" "60" "55") adj (multiple factor times)))	EPO; JPO; DERWENT	OR	ON	2007/06/10 19:41
L6	0	B65H075/38.ipc. and ((spool reel (wire\$1 cable\$1 cord\$1) adj (ac\$1um\$1ulat\$3 wind\$3)) and ((length (wind\$3 tak\$5 ac\$1m\$1lat\$3) adj span)) near10 ((diameter radius) and (shank shaft leg stem) and ("5" "8" "10" "12" "15" "17" "35" "40" "60" "55") adj (multiple factor times)))	USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/10 19:42
S1	50	((("20050173583") or ("5209420") or ("5664739") or ("5927635") or ("20050274840") or ("4576586") or ("6139397") or ("5695147") or ("6678472") or ("20030175026") or ("4373457") or ("5194063") or ("4491052") or ("6142892") or ("20050207155") or ("5727981") or ("6132285") or ("20060065373") or ("3610612") or ("5246185") or ("5823343") or ("4333687") or ("6080002") or ("20060052188") or ("4552035") or ("6103349") or ("4249278") or ("4867403") or ("5718583") or ("4144641") or ("4170085") or ("4458934") or ("4557310") or ("4622910") or ("4815172") or ("4830244") or ("4932395") or ("4963095") or ("4995329") or ("5551500") or ("5575241") or ("5680890") or ("5927659") or ("6122858") or ("5670989") or ("5472257") or ("4794695") or ("6056036") or ("4927154") or ("5022577") or (".").pn.").PN.	US-PGPUB; USPAT	OR	OFF	2007/01/06 15:52
S2	14	("0296196"   "0508732"   "3224754").PN. OR ("3610612").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/06 15:56

## EAST Search History

S3	1078	((24/269,909) or (242/388.2,388.4)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/06 15:57
S4	7	("2,475,525") or ("2577299") or ("5,695,147") or ("4,041,992") or ("3,438,098") or ("5012559") or ("1792468").PN.	USPAT	OR	OFF	2007/01/06 16:01
S5	1078	((24/269,909) or (242/388.2,388.4)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/06 16:29
S6	1053	S5 and @pd<"20020423"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/06 17:26
S7	1	("2475525").URPN.	USPAT	OR	ON	2007/01/06 16:36
S8	0	("2577299").URPN.	USPAT	OR	ON	2007/06/10 18:56
S9	3	("1792468").URPN.	USPAT	OR	ON	2007/01/06 16:39
S10	8	S6 and ((reel\$3 shank spool\$3 wind\$3 tension\$3) near2 (element bar elongat\$3 member)) near8 ((plane axis line) and (rotat\$3 exten\$4 engag\$3 co\$1axi\$4) and (line wire cable cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 13:00
S11	20	("0515340"   "1257827"   "1320882"   "1339601"   "1397976"   "1702340"   "2635451").PN. OR ("3879805").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/06 17:03
S12	62	S6 and (reel\$3 shank spool\$3 wind\$3 tension\$3) near8 ((plane axis line) and (rotat\$3 exten\$4 engag\$3 co\$1axi\$4) and (line wire cable cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/06 17:07
S13	61	S12 not S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/06 17:07
S14	20	("0515340"   "1257827"   "1320882"   "1339601"   "1397976"   "1702340"   "2635451").PN. OR ("3879805").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/06 17:10
S15	1	("2731691").URPN.	USPAT	OR	ON	2007/01/06 17:12
S16	3	("1792468").URPN.	USPAT	OR	ON	2007/01/06 17:23
S17	0	A44B.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/06 17:26
S18	199	(242/588.2).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/06 17:26
S19	150	S18 and @pd<"20020423"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 12:43

## EAST Search History

S20	1078	((24/269,909) or (242/388.2,388.4)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:42
S21	199	(242/588.2).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:46
S22	1203	(S20 S21) and @pd<"20020423"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 12:59
S23	2	S22 and (length (horizontal lateral) adj (dimension)) near6 ((shank reel shaft bar) and (diameter cross\$1section\$2) and (cable wire cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 12:50
S24	1546	(242/366.2,395,404.3,579,597).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/07 12:47
S25	1461	S24 and @pd<"20020423"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 12:47
S26	1	S25 and (length (horizontal lateral) adj (dimension)) near6 ((shank reel shaft bar) and (diameter cross\$1section\$2) and (cable wire cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 13:11
S27	3	S22 and (length (horizontal lateral) adj (dimension)) near8 ((shank reel shaft bar) and (diameter cross\$1section\$2) and (cable wire cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 12:51
S28	1	S22 and (length (horizontal lateral) adj (dimension)) near10 ((shank reel shaft bar) and (diameter cross\$1section\$2) near6 (cable wire cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 12:51
S29	5	S22 and (shank reel shaft bar) near8 ((diameter cross\$1section\$2) near4 (cable wire cord))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 12:58
S30	520	(248/492,493,495).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/07 14:32
S31	487	S30 and @pd<"20020423"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/07 14:32